

Docket No. RDID 0006US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Kalatz et al.

Application No.: 09/711,855

Group No.: 1631

Filed: Nov. 13, 2000

Examiner: Ly, Cheyne D

For: System for the Extrapolation of Glucose Concentration

AMENDMENT AND REPLY UNDER 37 C.F.R. 1.111

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Introductory Comments

In response to the Official Action mailed February 24, 2003, a two-month extension of time, entry of the following amendments and consideration of the accompanying remarks is respectfully requested.

#18/E
Plunkett
7/30/03

Amendments to the Abstract

A system System for the extrapolation of a glucose concentration ~~comprising~~ has a data input device (EI) for entering administered insulin doses (I_i) and their times of administration (t_i), a data input device (~~EK~~) for entering the carbohydrates (KH_i) consumed or to be consumed, a unit (~~GM~~) for determining an actual glucose concentration (G_a) at a point in time (t_a) in a patient's bodily fluid, a memory unit (~~M~~) ~~for storing the insulin doses that have been administered, their times of administration, carbohydrate units consumed and their times of consumption, and~~ an evaluation unit (CPU) for evaluation of the data stored in the memory unit, and for the extrapolation of a glucose concentration at a point in time t_p , whereby t_p is after t_a , ~~and in which the extrapolation comprises the following steps:~~

~~Determination of~~ The extrapolation includes determining the portion (I_{wirk}) of insulin doses that become effective between t_a and t_p ;

~~Determination of~~ determining the portion of consumed carbohydrate units KH_{wirk} , that become effective between t_a and t_p , and determining

~~Determination of~~ an extrapolated glucose concentration G_p at the point in time t_p with consideration for I_{wirk} and KH_{wirk} .

~~The invention also provides a method for the extrapolation a glucose concentration and a system for the determination of insulin doses to be administered.~~